AMENDMENT NO. 3 SEPTEMBER 2016
TO
IS 9968 (PART 1) : 1988 SPECIFICATION FOR ELASTOMER INSULATED CABLES

PART 1 FOR WORKING VOLTAGES UP TO AND INCLUDING 1 100 VOLTS

(First Revision)

(*Page* 8, *Table* 6) ─ Substitute the following table for the existing:

Table 6 Elastomer Insulated, Single-Core, Circular, Twin-Core, Three Core and Four Core Elastomer Sheathed Flexible Cords

(*Clauses* 11.1, 12, 18.1 *and* 19)

Construction:
a) Tinned annealed copper conductor (*see* **3** and **10.2**).
b) Optional separator tape (*see* 3.3).
c) Insulation:
   1) General Service elastomeric (*see* **4.1**), or
   2) Heat resisting elastomeric (*see* **4.2**).
d) Optional tape (*see* **5**).
e) General service sheath (*see* **8.1.1**) in case of general service insulation and heat resisting sheath (*see* **8.2.1**) in case of heat resisting insulation.
f) 2, 3and 4 cores laid up (*see* **17.1**) optional fillers (*see* **6.1**) for 2, 3 and 4 core cords.

Sl No.	**Nominal Cross-Sectional Area of Conductor**	**Nominal Thickness of Insulation** (t_i)	**Nominal Thickness of Sheath (t_s)**				**Overall Diameter,** ***Max***			
			Single Core	Two Core	Three Core	Four Core	Single Core	Two Core	Three Core	Four Core
	mm^2	mm	mm	mm	mm	mm	mm	mm	mm	mm
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
i)	0.5	0.6	0.8	0.8	0.9	0.9	5.8	8.3	8.9	9.5
ii)	0.75	0.6	0.8	0.8	0.9	0.9	6.0	8.7	9.4	10.0
iii)	1.0	0.6	0.9	0.9	0.9	0.9	6.3	9.3	9.7	10.5
iv)	1.5	0.8	1.0	1.0	1.0	1.1	7.3	10.9	11.5	12.6
v)	2.5	0.9	1.1	1.1	1.1	1.2	8.0	12.4	13.0	14.3
vi)	4	1.0	1.2	1.2	1.2	1.3	9.0	14.2	15.0	16.5

(*Page* 9, *Table* 7) — Substitute the following table for the existing:

Table 7 Elastomer Insulated, Textile Braided, Single and Twisted Twin Flexible Cords

(*Clauses* 11.1, 12 *and* 15.1)

Construction:
a) Tinned annealed copper conductor (*see* **3** and **10.2**).
b) Optional separator tape (*see* **3.3**).
c) General service elastomeric insulation (*see* **4.1**).
d) Braided with artificial silk mercerized or cotton (*see* **7.1**).
e) In case of twisted twin flexible cord, two such braided cores shall be twisted together (*see* **17.1**).

Sl No.	**Nominal Cross- Sectional Area of Conductor**	**Nominal Thickness of Insulation** (t_i)	**Overall Diameter of Each Braided Core,** ***Max***
	mm^2	mm	mm
(1)	(2)	(3)	(4)
i)	0.5	0.6	4.7
ii)	0.75	0.6	4.9
iii)	1.0	0.6	5.1
iv)	1.5	0.8	5.8
v)	2.5	0.9	6.4

Price Group 2

(*Page* 9, *Table* 8) ─ Substitute the following table for the existing:

Table 8 Elastomer Insulated, Circular, Twin-Core and Three-Core, Textile Braided Flexible Cords

(*Clauses* 11.1, 12 *and* 15.1)

Construction: a) Tinned annealed copper conductor (*see* **3** and **10.2**).
b) Optional separator tape (*see* **3.3**).
c) General Service elastomeric insulation (*see* **4.1**).
d) Two or three cores shall be twisted together (*see* **17.1**).
e) Optional fillers (*see* **6.1**).
f) Braided with artificial silk mercerized or cotton (*see* **7.1**).

Sl No.	**Nominal Cross- Sectional Area of Conductor** mm^2	**Nominal Thickness of Insulation (t_i)** mm	**Overall Diameter , *Max***	
			Two-Core mm	Three-Core mm
(1)	(2)	(3)	(4)	(5)
i)	0.5	0.6	7.3	7.7
ii)	0.75	0.6	7.7	8.1
iii)	1.0	0.6	8.0	8.5
iv)	1.5	0.8	9.4	10.0
v)	2.5	0.9	10.7	11.3
vi)	4	1.0	12.3	13.1

(*Page* 9, *Table* 9) — Substitute the following table for the existing:

Table 9 Elastomer Insulated Twin-Core or Three-Core Unkinkable Flexible Cords (Workshop Type)

(*Clauses* 11.1, 12, 15.1, 16.1 *and* 18.1)

Construction: a) Tinned annealed copper conductor (*see* **3** and **10.2**).
b) Optional separator tape (*see* **3.3**).
c) General Service elastomeric insulation (*see* **4.1**).
d) Two or three cores shall be twisted together (*see* **17.1**).
e) Optional fillers (*see* **6.1**).
f) Binder tape (*see* **18.1**).
g) Textile braiding (*see* **7.1**).
h) Textile braiding shall be treated with preservative compound (*see* **9.1**).

Sl No.	**Nominal Cross- Sectional Area of Conductor** mm^2	**Nominal Thickness of Insulation (t_i)** mm	**Overall Diameter, *Max.***	
			Two-Core mm	Three-Core mm
(1)	(2)	(3)	(4)	(5)
i)	0.5	0.6	7.6	8.0
ii)	0.75	0.6	8.0	8.4
iii)	1.0	0.6	8.3	8.8
iv)	1.5	0.8	9.7	10.3
v)	2.5	0.9	11.0	11.6
vi)	4	1.0	12.6	13.4

(*Page* 9, *Table* 10) — Substitute the following table for the existing:

Table 10 Elastomer Insulated Twin-Core Or Three-Core Unkinkable Flexible Cords (Domestic Type)

(*Clauses* 11.1, 12, 15.1, 16.1 *and* 18.1)

Construction:
a) Tinned annealed copper conductor (*see* **3** and**10.2**).
b) Optional separator tape (*see* **3.3**).
c) General Service elastomeric insulation (*see* **4.1**).
d) Two or three cores shall be twisted together (*see* **17.1**) with filler of natural or synthetic fibres (*see* **6.1**).
e) Elastomeric sheath (*see* **8.1.1**).
f) Cotton braided being semi embedded in the sheath (*see* **7.1**).

Sl No.	**Nominal Cross- Sectional Area of Conductor** mm^2	**Nominal Thickness of Insulation (t_i)** mm	**Nominal Thickness of Sheath (t_s)**		**Overall Diameter**, *Max*	
			Two-Core mm	Three-Core mm	Two-Core mm	Three-Core mm
(1)	(2)	(3)	(4)	(5)	(6)	(7)
i)	0.5	0.8	1.3	1.4	11.3	12.0
ii)	0.75	0.8	1.3	1.4	11.7	12.4
iii)	1.0	0.8	1.3	1.4	12.1	12.8
iv)	1.5	0.8	1.5	1.6	13.0	13.8
v)	2.5	0.9	1.7	1.8	14.7	15.6
vi)	4	1.0	1.8	1.9	16.8	17.6

(ETD 09)

Publication Unit, BIS, New Delhi, India